

Art Unit: 2663

CPTO
JJD
4/15/05

BEST AVAILABLE COPY

Please cancel claims 1 – 21 and enter new claims 22– 36, as follows.

21

22. (Amended) A signal transmission method over a forward traffic channel in cellular mobile communications that can simultaneously perform one or more high speed communications whose transmission rates are higher than or equal to a predetermined rate, and one or more low speed communications whose transmission rates are lower than the predetermined rate between a plurality of mobile stations and a base station, said signal

transmission method comprising the steps of:

07/16/2003 JDD:RDS 00000003 024270 09294630

01 FC:1251 110.00 DA checking, on a base station side, whether a communication request is made for a high speed communication;

07/19/2003 MAHMEI 00000080 09294630

02 FC:1202 36.00 OP

1

checking, if the communication request is made for a high speed communication, whether transmission power of all high speed communications performed simultaneously becomes greater than a predetermined first threshold value if the communication request is accepted;

21
ch. d.

checking whether transmission power of all communications performed simultaneously becomes greater than a predetermined second threshold value if the communication request is accepted; and

restricting acceptance of the communication request, if the transmission power of all high speed communications becomes greater than the first threshold value or the transmission power of all communications becomes greater than the second threshold value.

23. (New) The signal transmission method as claimed in claim 22, wherein the step of restricting rejects the communication request, if the transmission power of all high speed communications becomes greater than the first threshold value.

Art Unit: 2663

25. (Amended) The signal transmission method as claimed in claim 22, wherein the step of restricting checks, if the transmission power of all high speed communications becomes greater than the first threshold value, whether the transmission power of all high speed communications becomes greater than a predetermined third threshold value if the communication request is accepted, and accepts the communication request with limiting a transmission rate of the requested communication, if the transmission power of all high speed communications becomes less than or equal to the third threshold value, and rejects the communication request, if the transmission power of all high speed communications becomes greater than the third threshold value.

26. (Amended) The signal transmission method as claimed in claim 22, wherein the step of restricting checks, if the transmission power of all high speed communications becomes greater than the first threshold value, whether the transmission power of all high speed communications becomes greater than a predetermined third threshold value if the communication request is accepted, and accepts the communication request with limiting a transmission rate of the requested communication, if the transmission power of all high speed communications becomes less than or equal to the third threshold value, and temporarily holds, if the transmission power of all high speed communications becomes greater than the third threshold value, the communication request for an allowable time period to wait for the transmission power of all high speed communications to become less than or equal to the third threshold value, and rejects the communication request if the transmission power of all high

27. (New) The signal transmission method as claimed in claim 22, further comprising the step of varying the first threshold value in accordance with a number of low speed communications.

Art Unit: 2663

28. (New) The signal transmission method as claimed in claim 25 or 26, further comprising the step of varying the second threshold value in accordance with a number of low speed communications.

29. (New) The signal transmission method as claimed in claim 22, further comprising the step of carrying out channel assignment of a combination of channels in which a forward channel transmission rate is higher than a reverse channel transmission rate.

30. (Amended) A base station that simultaneously performs one or more high speed communications whose transmission rates are higher than or equal to a predetermined rate, and one or more low speed communications whose transmission rates are lower than the predetermined rate with a plurality of mobile stations, said base station comprising:

means for checking whether a communication request is made for a high speed communication;

means for checking, if the communication request is made for a high speed communication, whether transmission power of all high speed communications performed simultaneously becomes greater than a predetermined first threshold value if the communication request is accepted;

means for checking whether transmission power of all communications performed simultaneously becomes greater than a predetermined second threshold value if the communication request is accepted; and

means for restricting acceptance of the communication request, if the transmission power of all high speed communications becomes greater than the first threshold value or the transmission power of all communications becomes greater than the second threshold value.

31. (New) The base station as claimed in claim 30, wherein the means for restricting rejects the communication request, if the transmission power of all high speed communications becomes greater than the first threshold value.

32. (New) The base station as claimed in claim 30, wherein the means for restricting temporarily holds, if the transmission power of all high speed communications becomes greater than the first threshold value, the communication request for an allowable time period to wait for the transmission power of all high speed communications to become less than or equal to the first threshold value, and rejects the communication request if the transmission power of all high speed communications does not become less than or equal to the first threshold value within the allowable time period.

33. (Amended) The base station as claimed in claim 30, wherein the means for restricting checks, if the transmission power of all high speed communications becomes greater than the first threshold value, whether the transmission power of all high speed communications becomes greater than a predetermined third threshold value if the communication request is accepted, and accepts the communication request with limiting a transmission rate of the requested communication, if the transmission power of all high speed communications becomes less than or equal to the third threshold value, and rejects the communication request, if the

Art Unit: 2663

transmission power of all high speed communications becomes greater than the third threshold value.

34. (Amended) The base station as claimed in claim 30, wherein the means for restricting checks, if the transmission power of all high speed communications becomes greater than the first threshold value, whether the transmission power of all high speed communications becomes greater than a predetermined third threshold value if the communication request is accepted, and accepts the communication request with limiting a transmission rate of the requested communication, if the transmission power of all high speed communications becomes less than or equal to the third threshold value, and temporarily holds, if the transmission power of all high speed communications becomes greater than the third threshold value, the communication request for an allowable time period to wait for the transmission power of all high speed communications to become less than or equal to the third threshold value, and rejects the communication request if the transmission power of all high speed communications does not become less than or equal to the third threshold value within the allowable time period.

35. (New) The base station as claimed in claim 30, further comprising the means for varying the first threshold value in accordance with a number of low speed communications.

36. (Amended) The base station as claimed in claim 33, further comprising the means for varying the third threshold value in accordance with a number of low speed communications.

37. (New) The signal transmission method as claimed in claim 26, further comprising the step of varying the third threshold value in accordance with a number of low speed communications.

38. (New) The base station as claimed in claim 34, further comprising the means for varying the third threshold value in accordance with a number of low speed communications.

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- ☐ **BLACK BORDERS**
- ☐ **IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- ☐ **FADED TEXT OR DRAWING**
- ☐ **BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- ☐ **SKEWED/SLANTED IMAGES**
- ☐ **COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- ☐ **GRAY SCALE DOCUMENTS**
- ☒ **LINES OR MARKS ON ORIGINAL DOCUMENT**
- ☐ **REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- ☐ **OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.